



WOODBURY SCHOOL

“A 21st century school must be responsive and flexible enough to ensure every young person can achieve their potential and is set up for life-long learning.”

Let's talk about: Personalised learning MOE 2006

**ICT Strategic Plan
2009-2011**

Background

“Effective teaching for all students will depend on teachers becoming confident and capable users of ICT and understanding how to integrate ICT effectively into their teaching practice.”

MOE 2006, Enabling the 21st Century Learner.

Woodbury Primary school is a small two teacher school in South Canterbury. It is currently involved in a Ministry of Education funded Information Communication Technology Professional Development (ICTPD) contract. The School is attached to the Aoraki ICTPD Cluster in South Canterbury. Three teachers (Principal, Classroom Teacher, and 0.4FTE Teacher) are participating in the ongoing professional development that is being facilitated by eTime as part of this.

Woodbury School is fully networked operating from a centralised SmartNet server. There are six network outlets in each classroom with room for further expansion. The school is multiplatform and equipped with a mix of PC and Macintosh computers.

The school has an attractive website that provides information for the community on school events, strategic plan, news, enrolments, students and contacts.

Woodbury School's ICT strategic plan has been developed in line with recommendations outlined in the Woodbury School ICT Audit (eTime February 2009).

The ICT Audit was based on six essential conditions for the successful integration of ICT into teaching/learning and administration.

- Shared Vision and leadership
- Effective systems
- Access to equipment
- Teacher expertise
- Effective teaching and learning practices
- Equity

“Just like the ability to read and write, ICT literacy will be an essential life skill- an economic and social necessity.”

MOE 2006, Enabling the 21st Century Learner.

Woodbury school is committed to developing a 21st century school

Strategic Goals 2009 - 2011

- Goal 1:** Develop a shared vision, beliefs and practices based on current research, about how ICT can be used to enhance teaching and learning
- Goal 2:** Build strong, collaborative leadership capacity to lead and manage the changes necessary to develop more effective teaching and learning practices that integrate ICT.
- Goal 3:** Have a system which is efficient and effective in enabling technology to enhance teaching, learning and administration.
- Goal 4:** To provide staff and students with robust access to ICT 'anywhere, anytime' to support effective teaching and learning.
- Goal 5:** Improve learning outcomes for students by developing teachers' confidence and skills in using ICT to enhance learning.
- Goal 6:** Create learning opportunities for students to develop and apply higher-order thinking skills and strategies, including inquiry, in authentic contexts that integrate ICT appropriately to enhance their learning.
- Goal 7:** All students in the school have access to learning with high-quality technologies, irrespective of their year level, class, physical ability, gender, race, socio-economic status, learning needs or abilities.

Operational Plan

SHARED VISION AND LEADERSHIP

Goal 1: Develop a shared vision, beliefs and practices based on current research, about how ICT can be used to enhance teaching and learning

Principles:

- Staff, students and the community are involved in developing the vision.
- It is based on sound research and knowledge about how people think and learn.
- It is in a form that can be clearly communicated & understood by all.
- It is being clearly communicated and constantly referred to.

Strategy	Outcome	Completed by	Responsibility of
Group convened to lead the development of the ICT vision.	Work in progress		Principal or ICT Lead Teacher
Staff and school community to develop the school's vision, values and principles underlying implementation of the NZ curriculum that Includes a vision for the role of ICT in enhancing teaching and learning.	Working towards completion		Principal or ICT lead teacher.
Teachers will identify the role of ICT in enhancing learning in curriculum documentation for learning areas within the school.	//		Principal or ICT lead teacher.
Teachers will access, explore and examine current research in the role of ICT in enhancing teaching and learning.	//		Lead Teacher
Develop and action a plan to communicate the vision.			Principal and Lead Teacher

Goal 2: Build strong, collaborative leadership capacity to lead and manage the changes necessary to develop more effective teaching and learning practices that integrate ICT.

Principles:

- Leaders spend most of their time leading rather than managing
- Leaders apply effective change management strategies
- Leaders develop, implement, monitor and report on the progress of the ICT strategic plan.

Strategy	Outcome	Completed by	Responsibility of
Develop partnerships and collaboration within the community to support and fund the use of ICT and digital resources.	Plan for 2010: amount built into budget and noted for new BOT using home and school funding.		
Develop a long-term plan, budget and funding for the acquisition and replacement of equipment, technical support, personnel and the professional development of staff.	Meeting with Ian Annette and Teachers – Classroom manager/SM		
The Herrmann Brain Dominance Instrument is used to profile staff thinking preferences. Individual and group feedback is provided. Connections are made between thinking preferences, 21 Century skills and the key competencies, and how to use ICT to enhance learning.	Have developed own thinking skills, key competencies and Habits of mind and HBD diagram to show relationships between each.	December 2009	
The implementation of the ICT Strategic Plan is monitored regularly.		Review each semester.	

EFFECTIVE SYSTEMS

Goal 3: Have a system which is efficient and effective in enabling technology to enhance teaching, learning and administration.

Principles:

- Technology brings new approaches to learning and increased efficiencies for administration.
- Systems enable efficient and effective use of the technology.
- Technologies should enhance teaching/learning and administration.

Strategy	Outcome	Completed by	Responsibility of
Develop a three year ICT strategic plan.	Draft completed to be reviewed periodically		
Identify which computers should stay, be upgraded, or be replaced.	Consult with Ian 8.12.09		
Install a wireless port in each classroom.	To be installed term 1 2010	April 2010	
Set up Electronic student management system which can be managed offsite and is web based. (E.g. eTAP)	Classroom Manager already installed. All staff to be trained in its use during 2010.		
Develop class wiki sites which could be hyperlinked to the main school website to allow interaction between teachers, students and parents.	ICTPD to focus on this during 2010. Classroom teachers to manage.	December 2010	
Further develop the use of SmartNet server to ensure important files on the desktops and laptops are backed up.	System is in place.		Principal
Organise File storage system to allow more efficient use of time for management and administration tasks.	Teacher only day needed to sort out his issue.		
Access a Technical support person to ensure systems are maintained and up-to-date as well as to provide appropriate ICT advice and support.	In place: Geraldine Computer Solutions.		

ACCESS TO EQUIPMENT

Goal 4: To provide staff and students with robust access to ICT 'anywhere, anytime' to support effective teaching and learning.

Principles:

- The quantity and quality of hardware/software is sufficient to support the vision
- The budget is aligned to meet needs for ICT
- ICTs are strategically located for effective use
- The network and storage capacity is sufficient to cater for increasing demands
- Procedures are in place to ensure internet safety
- The student management system meets our current and future needs
- The information management system enables staff to share and access resources 'anywhere, anytime'
- Systems are in place to ensure that ICT equipment is maintained and updated
- Systems are in place to ensure that technical support meets the needs of the staff
- Facilities and furniture are suitable to support the vision.

Strategy (recommendations from audit)	Outcome	Completed by	Responsibility of
Replace Macintosh Computers as they cannot run the latest operating system.	Review of hardware. Is it worth upgrading or can they be used as a stand alone?		
Upgrade the RAM to 1GB on the three HP Compaq nx9005 to extend their life		Term 1 2010	
Investigate the purchase of new Netbooks from Toshiba, Acer and Cyclone as they would complement multi-media desktop computers (e.g Intel iMacs) (want...computers suitable for video editing or multi-media)	Would prefer laptops capable of running these systems. .		
Replace the classroom Macs with new Intel Core 2 Duo iMacs (recommended to lease to spread cost), Configure these to run windows alongside Mac operating system.	Opihi College have leased Macs – could provide advice? Investigate this during term 1. April 2010: Purchased new desktops		
Update software on student computers to include Inspiration v8, KidPix 3(Mac), Kidpix 4 (PC), Comic life. (Recommended by etime)	Kidpix is already on the Mac – not sure which version? Kidpix 4 to be investigated further. Comic life – Maureen to find supplier. Inspiration v8 - to use webspiration		WS!kag2D – pass for webspiration
Purchase of at least two more digital cameras (Recommended: Canon PowerShot A480 (\$230) or the Canon PowerShot SX110 IS for higher quality)			
A Firewire port is needed to support the video camera for the computer it connects to. Purchase of new video camera to suit operating	Query digit camera to replace.		

system (etime can suggest suitable one)			
Mount data projectors on Ceiling in each classroom and purchase portable one for library and other use. (Sony VPL EX70 (2600 ANSI lumens) Recommended by etime)	Under investigation using library dev. Money for third projector.		
Install a sound system at the same time as data projectors (Recommended: Logitech X-230 2.1 wall mountable speaker system)	For future reference.		
Installation of interactive whiteboards in both classrooms.	// //		
Organise school network storage system for more effective and efficient use by teachers.	To be actioned Term 1. 2010		
Update student access system to allow for closer monitoring of student activity.	Individual passwords to be allocated.		
Schools Internet safety policy reviewed and updated.	Netsafe programme 2010 with Geraldine schools: Teachers, students & parents.		
Cyber Safety contracts with students and parents reviewed and updated.	// //		
Ongoing maintenance and servicing of ICT equipment is carried out.	Geraldine Computer Solutions monitoring & advising.		

TEACHER EXPERTISE

Goal 5: Improve learning outcomes for students by developing teachers' confidence and skills in using ICT to enhance learning.

Principles

- Examine, explore and develop shared pedagogical understandings for how ICT can support effective teaching and learning.
- Teachers go through a developmental process when developing confidence and skills in using ICT.
- The PD is tailored to meet teachers' level of understanding and application.

Strategy	Outcome	Completed by	Responsibility of
Survey the staff to identify their understanding and use of ICT to enhance learning, using an adaptation of the ACOT model, developed by eTime.	Survey completed and staff have identified their current position and next steps for development.		Lead teacher
Develop staff and teachers expertise in the use of ICT for administrative tasks. (e.g. Student/Classroom Manager)	Student & Classroom Manager training begin Term 1 2010.	Term 2 2010	Principal Lead Teacher
Provide opportunities to visit other classrooms to learn with and from other students and accomplished teachers, as they model ICT integration and constructivist teaching strategies.	Will arrange local visits to suit needs.		Principal Classroom Teachers
Provide opportunities to explore and engage in hands-on, active learning, collaborate with peers and work on authentic tasks.	Planning for 2010 is collaborative, will include ICT .		Principal Lead TEacher
Provide assistance in applying what is learned during PD into their classroom.	Use professional learning group time to share achievements and problems.		Lead Teacher
Provide on-going follow-up and peer support.	//		Lead Teacher
Teachers are to reflect on their learning and provide next steps.	End of Semester.		All Teachers

EFFECTIVE TEACHING AND LEARNING PRACTICES

Goal 6: Create learning opportunities for students to develop and apply higher-order thinking skills and strategies, including inquiry, in authentic contexts that integrate ICT appropriately to enhance their learning.

Principles:

- Learning is aligned to the school vision
- Learning is relevant and authentic. Students are working on substantive projects, using a range of technologies and higher-order thinking skills, to address meaningful issues and reach beyond the classroom to the real-world.

Strategy	Outcome	Completed by	Responsibility of
Provide opportunities for students to use ICT for creative and critical thinking, collaboration, communication and enterprise.	Using photo story, webspiration, comic life introduce simple spreadsheeting. Across all learning areas.		
Consider ways for teachers and students to integrate ICT across all learning areas using authentic contexts.	Refer to collaborative curriculum plan.		
Develop a consistent approach across the school for the use of ICT.	In progress with new curric. Development.		
Develop further understanding and use of higher-order thinking skills.	Habits of Mind aligned with Key Competencies.		
Integrate the use of digital cameras more, by students, to encourage and support creative thinking in literacy and numeracy.	On-going.		
Include more opportunities for inquiry based approaches to teaching and learning using authentic, future-focused contexts.	//		
Explore the use of Web 2.0 technologies for collaborative learning.	//		
Create opportunities for groups of children to take on leadership roles with ICT, e.g. a media team to report on events around the school, technical experts to support other students and teachers.	See 3 b4 me		
Develop an inquiry learning model, specific to the needs of the students, which integrates higher-order thinking skills and ICT. Rubrics will be created to assist teachers and students.	Part of Habits of Mind/ new curric.		

EQUITY

Goal 7: All students in the school have access to learning with high-quality technologies, irrespective of their year level, class, physical ability, gender, race, socio-economic status, learning needs or abilities.

Principles:

- Teachers of all class and age levels provide opportunities for students to integrate ICT in their learning.
- School leaders ensure that there is access to ICT resources at all year levels
- Teachers ensure that both boys and girls have equitable opportunities to use ICT
- Students with learning needs and special gifts and talents are fully catered for

Strategy	Outcome	Completed by	Responsibility of
Ensure that there is consistency in access to up-to-date computer hardware and software between classes.	Presently reviewing needs and looking to upgrade hardware to attain equity between classes. Presently sharing latest hardware.		Staff Geraldine Computer Solutions advisory.
Consider purchasing software to assist with particular learning needs, e.g. dyslexia	Purchasing Multi Lit. for 2010.		
Ensure that all teachers participate in ICT professional development opportunities and that they all apply the new skills in their classroom.	On-going, will set as part of appraisal process 2010.		